

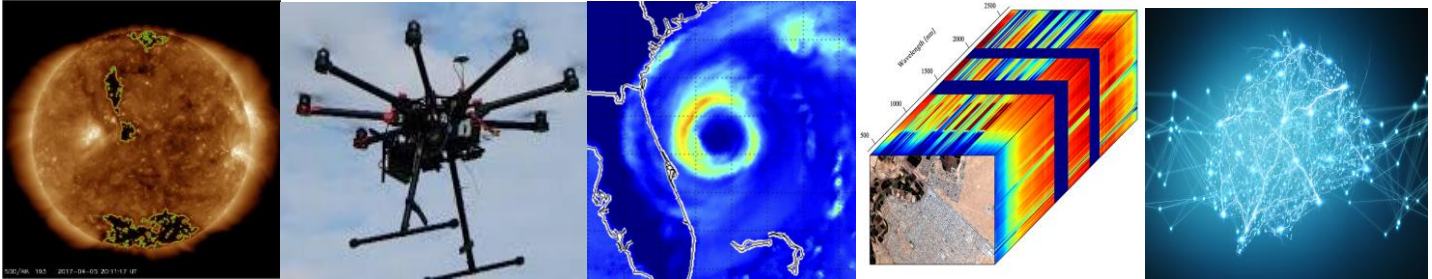
Call for Paper

Special Session: *AI/ML in Observations from and of the Space*

10th International Conference on Pattern Recognition and Machine Intelligence (PReMI'23)

December 12-15, 2023

<https://www.isical.ac.in/~premi23/>



In recent times, a huge amount of data has been generated in the domain of space and atmospheric science daily. The observations are coming from both terrestrial instruments looking towards space, like mega science mission telescopes, radars and other remote sensing instruments, and also from space-based observations. The space-based observations include data from remote sensing satellites, weather satellites, Drones, Airborne sensors, Cubesat, Small satellite and many other sources for earth observation. The volume and the speed of the data collected at each moment requires novel techniques and methodology in analyzing the data in real-time. The application of ML/AI and Big data in these domains are relatively new, however, already shown tremendous potential. However, it has its own challenges because of the observation techniques, which in most cases are very different from optical images or videos used in daily life. The very high dimensional data along with completely different data characteristics is another challenge. This special session is invited to discuss the latest developments in this field where data are collected primarily through space-based observations or for study of the space and atmosphere.

We invite impactful work dealing with applications of AI/ML in the domain of Space Science and Technology in the following topics (but not limited to):

- Smallsat/Cubesat
- Planetary Exploration
- Human Space Mission
- Space Debris Monitoring
- Astronomy
- Solar Physics
- Space Weather
- Drone Applications
- Weather Radar
- Climate Modelling
- Satellite Remote Sensing
- Hyperspectral and Multispectral
- Synthetic Aperture Radar
- Microwave Remote Sensing

Important Dates

Paper Submissions: ~~April 30, 2023~~ May 10, 2023

Acceptance Notification: June 30, 2023

Camera-ready submissions: July 15, 2023

Organizers

Saurabh Das (IIT Indore)

Abhirup Datta (IIT Indore)

Proceedings: All accepted papers, whose author(s) register, would be included in the conference proceedings to be published by Springer International Publishing in its prestigious LNCS series.

Authors' instruction: <http://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>

Submission Guidelines: <https://equinocs.springernature.com/service/PReMI2023> [Please mention the name of the special session during submission]